

ENABLING PUSH TECHNOLOGIES FOR MOBILE IP

ABSTRACT OF THE DISCLOSURE

Methods and apparatus for enabling a Mobile Node supporting mobile IP to roam without an assigned IP address and receive lookups indicating that a Corresponding Node wants to send information to the Mobile Node are disclosed. A name lookup may be sent from a Corresponding Node to a Home Agent that has previously registered the Mobile Node. The name lookup may be sent through an intermediate device, including a Domain Name Server, such that the intermediate device contacts the Home Agent. During the name lookup process, an IP address is allocated to the Mobile Node and a data path is established between the Home Agent and the Mobile Node via a Foreign Agent. When the lookup is completed successfully, the Home Agent sends the IP address allocated to the Mobile Node in the name lookup process to the device requesting the lookup. The IP address of the Mobile Node may then be used by the Corresponding Node to “push” information to the Mobile Node.